

	<b>Resins and Standards Specifications</b>		<b>DOC: QC-192</b>	<b>REV: 0</b>
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## Resins and Standards Specifications

### HDPE 4710/3608 Moulded Fitting Specifications

#### Certification

CSA certified to NSF/ANSI 61 materials for use in contact with drinking water  
 Butt Fusion Fittings - 1 ¼ -12" & 14" x 12" Reducer DIPS  
 Socket Fusion Fittings - 1 ¼" - 4"

#### Meets Requirements

ASTM D3261 - Butt Heat Fusion for Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing  
 ASTM D2683 - Standard Specification for Socket-Type PE Fittings for Outside Diameter- Controlled Polyethylene Pipe and Tubing  
 ASTM D3350 - Standard Specification for Polyethylene Plastics Pipe and Fittings Materials (PPI Listed)  
 AWWA C906 - Polyethylene (PE) Pressure Pipe and Fittings, 4 In. Through 65 In. (100 mm Through 1,650 mm), for Waterworks. Note: 5 second pressure test also performed on fittings ¾" - 3"

#### Material Designation

Designation/Colour/Cell Classification of Rahn Resins (as per ASTM D3350)

Resin Designation	Colour	Cell Classification
PE4710	(HDB) Black	PE445574C
PE3608 (formerly PE3408)	(HDB) Black	PE345464C

Oxidative Resistance Classification CC2 and CC3 available as per ASTM D3350

### MDPE 2708 Moulded Fitting Specifications

#### Certification

CSA B137.4 - Polyethylene Pipe Systems for Natural Gas Distribution Systems

#### Meets Requirements

ASTM D2513 - Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings  
 ASTM D3261 - Butt Heat Fusion for Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing  
 ASTM D2683 - Standard Specification for Socket-Type PE Fittings for Outside Diameter- Controlled Polyethylene Pipe and Tubing  
 ASTM D3350 - Standard Specification for Polyethylene Plastics Pipe and Fittings Materials (PPI Listed)

#### Material Designation

Designation/Colour/Cell Classification of Rahn Resins (as per ASTM D3350)

Resin Designation	Colour	Cell Classification
PE2708 (formerly PE2406)	Yellow	PE234373E

Customer applied further design factors may apply to Natural Gas Distribution Systems

### HDPE 4710/3608 Fabricated Fitting Specifications

#### Meets Requirements

ASTM D3350 - Standard Specification for Polyethylene Plastics Pipe and Fittings Materials (PPI Listed)  
 ASTM F2206 - Standard Specification for Fabricated Fittings of Butt Fused Polyethylene (PE)

Rahn Socket Fusion Fittings\*\* have a working pressure of 160 psi (PE3608) and 200 psi (PE4710) @ 23°C

\*\*Exceptions: 1) Socket Fusion x Female Adapters

2) Drainage Fittings – Non-Pressure Application (Wyes, Clean Out Adapters)

Resin Pressure Ratings – as per Rahn Resin Pressure Chart (available upon request)